



Serial No.: 09/770,848
 Confirmation No.: 8405
 Applicant: Patel, Arvind D.
 Atty. Ref.: 11836.0582.CNUS01

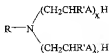
AMENDMENTS TO THE CLAIMS:

IN THE CLAIMS:

Please amend the claims as follows:

1. (Currently Amended) An invert emulsion fluid having utility for drilling, completing, or working over subterranean wells, said fluid comprising:

- a) an oleaginous fluid;
- b) a non-oleaginous fluid;
- c) a weighting material; [[and]]
- d) an amine surfactant having the structure



wherein R is a C₁₂-C₂₂ aliphatic hydrocarbon; R' is an independently selectable from hydrogen or C₁ to C₃ alkyl; A is NH or O, and 1 ≤ x+y ≤ 3[[.]]; and

c) a bridging agent.

2. (Original) The invert emulsion fluid of claim 1 wherein said oleaginous fluid comprises from about 30% to about 99% by volume of said fluid.

3. (Original) The invert emulsion fluid of claim 1 wherein said oleaginous fluid is selected from a group consisting of diesel oil, mineral oil, a synthetic oil, and combinations thereof.

4. (Previously presented) The invert emulsion fluid of claim 1 wherein said oleaginous fluid comprises from 5% to about 100% by volume of the oleaginous fluid a material selected from a group consisting of esters, ethers, acetals, di-alkylcarbonates, hydrocarbons, and combinations thereof.



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5. (Original) The invert emulsion fluid of claim 1 wherein said non-oleaginous fluid comprises from about 1% to about 70% by volume of said fluid.
6. (Original) The invert emulsion fluid of claim 1 wherein said non-oleaginous fluid is an aqueous liquid.
7. (Original) The invert emulsion fluid of claim 6 wherein said aqueous liquid is selected from the group consisting of sea water, a brine containing organic or inorganic dissolved salts, a liquid containing water-miscible organic compounds, and combinations thereof.
8. (Original) The invert emulsion fluid of claim 1 wherein R is unsaturated.
9. (Canceled)
10. (Currently Amended) The invert emulsion of claim [[9]] wherein the weighting material or bridging agent is selected [[form]] from the group consisting of calcium carbonate, dolomite, siderite, barite, celestite, iron oxides, manganese oxides, ulexite, carnalite, and sodium chloride.
11. (Original) The invert emulsion of claim 1 wherein said amine surfactant is selected from diethoxylated tallow amine; diethoxylated soya amine; N-aliphatic-1,3-diaminopropane wherein the aliphatic group is a C₁₂ to C₂₂ hydrocarbon; or combinations thereof.
12. (Currently Amended) An invert emulsion fluid having utility for drilling completing, or working over subterranean wells, said fluid comprising:
- a) an oleaginous liquid, said oleaginous liquid comprising from about 30% to about 99% by volume of said fluid;



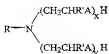
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- b) a non-oleaginous liquid, said non-oleaginous liquid comprising from about 1% to about 70% by volume of said fluid;
- c) a weighting agent; [[and]]
- d) an amine surfactant present in said fluid at a concentration of 0.1% to 5.0% by weight of said fluid, said amine surfactant having a structure of:



wherein R is a C₁₂-C₂₂ aliphatic hydrocarbon; R' is an independently selectable from hydrogen or C₁ to C₃ alkyl; A is NH or O, and 1 ≤ x+y ≤ 3 [[.]]; and
 e) a bridging agent.

13. (Original) The invert emulsion fluid of claim 12 wherein said oleaginous liquid is selected from a group consisting of diesel oil, mineral oil, a synthetic oil, and combinations thereof.

14. (Previously Presented) The invert emulsion fluid of claim 13 wherein said oleaginous fluid comprises from 5% to about 100% by volume of the oleaginous fluid a material selected from a group consisting of esters, ethers, acetals, di-alkylcarbonates, hydrocarbons, and combinations thereof.

15. (Original) The invert emulsion fluid of claim 14 wherein said non-oleaginous liquid is an aqueous liquid.



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16. (Original) The invert emulsion fluid of claim 15 wherein said aqueous liquid is selected from the group consisting of sea water, a brine containing organic or inorganic dissolved salts, a liquid containing water-miscible organic compounds, and combinations thereof.

17. (Original) The invert emulsion fluid of claim 12 wherein R is unsaturated.

18. (Original) The invert emulsion of claim 12 wherein said amine surfactant is selected from diethoxylated tallow amine; diethoxylated soya amine; N-aliphatic-1,3-diaminopropane wherein the aliphatic group is a C₁₂ to C₂₂ hydrocarbon; or combinations thereof.

19-22. Canceled

23. Canceled

24. Canceled